

Brenda McCowan

List of Publications by Year in descending order

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107
papers

4,558
citations

101543

36
h-index

114465

63
g-index

111
all docs

111
docs citations

111
times ranked

3905
citing authors

#	ARTICLE	IF	CITATIONS
1	Acoustic monitoring in terrestrial environments using microphone arrays: applications, technological considerations and prospectus. <i>Journal of Applied Ecology</i> , 2011, 48, 758-767.	4.0	449
2	Spontaneous vocal mimicry and production by bottlenose dolphins (<i>Tursiops truncatus</i>): Evidence for vocal learning.. <i>Journal of Comparative Psychology</i> (Washington, D C: 1983), 1993, 107, 301-312.	0.5	268
3	Cetaceans Have Complex Brains for Complex Cognition. <i>PLoS Biology</i> , 2007, 5, e139.	5.6	239
4	Acoustic sequences in non-human animals: a tutorial review and prospectus. <i>Biological Reviews</i> , 2016, 91, 13-52.	10.4	213
5	Linking social and pathogen transmission networks using microbial genetics in giraffe (<i>Giraffa camelopardalis</i>). <i>Journal of Animal Ecology</i> , 2014, 83, 406-414.	2.8	177
6	Quantitative tools for comparing animal communication systems: information theory applied to bottlenose dolphin whistle repertoires. <i>Animal Behaviour</i> , 1999, 57, 409-419.	1.9	127
7	Risk factors for stereotypic behavior and self-biting in rhesus macaques (<i>Macaca mulatta</i>): Animal's history, current environment, and personality. <i>American Journal of Primatology</i> , 2013, 75, 995-1008.	1.7	122
8	Utility of social network analysis for primate behavioral management and well-being. <i>Applied Animal Behaviour Science</i> , 2008, 109, 396-405.	1.9	119
9	The fallacy of "signature whistles" in bottlenose dolphins: a comparative perspective of "signature information" in animal vocalizations. <i>Animal Behaviour</i> , 2001, 62, 1151-1162.	1.9	108
10	How can social network analysis contribute to social behavior research in applied ethology?. <i>Applied Animal Behaviour Science</i> , 2012, 138, 152-161.	1.9	99
11	Bubble ring play of bottlenose dolphins (<i>Tursiops truncatus</i>): Implications for cognition.. <i>Journal of Comparative Psychology</i> (Washington, D C: 1983), 2000, 114, 98-106.	0.5	98
12	Barking in domestic dogs: context specificity and individual identification. <i>Animal Behaviour</i> , 2004, 68, 343-343.	1.9	93
13	Multilevel social organization and space use in reticulated giraffe (<i>Giraffa camelopardalis</i>). <i>Behavioral Ecology</i> , 2014, 25, 17-26.	2.2	87
14	Risk Factors and Remediation of Self-Injurious and Self-Abuse Behavior in Rhesus Macaques. <i>Journal of Applied Animal Welfare Science</i> , 2009, 12, 61-72.	1.0	74
15	Whistle contour development in captive-born infant bottlenose dolphins (<i>Tursiops truncatus</i>): Role of learning.. <i>Journal of Comparative Psychology</i> (Washington, D C: 1983), 1995, 109, 242-260.	0.5	71
16	Using information theory to assess the diversity, complexity, and development of communicative repertoires.. <i>Journal of Comparative Psychology</i> (Washington, D C: 1983), 2002, 116, 166-172.	0.5	67
17	Quantifying microbe transmission networks for wild and domestic ungulates in Kenya. <i>Biological Conservation</i> , 2014, 169, 136-146.	4.1	66
18	Network Stability Is a Balancing Act of Personality, Power, and Conflict Dynamics in Rhesus Macaque Societies. <i>PLoS ONE</i> , 2011, 6, e22350.	2.5	65

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19	Amplitude of bison bellows reflects male quality, physical condition and motivation. <i>Animal Behaviour</i> , 2008, 76, 1625-1639.	1.9	64
20	Antibiotic-resistant <i>E. coli</i> in surface water and groundwater in dairy operations in Northern California. <i>Environmental Monitoring and Assessment</i> , 2014, 186, 1253-1260.	2.7	57
21	A claim in search of evidence: reply to Manger's thermogenesis hypothesis of cetacean brain structure. <i>Biological Reviews</i> , 2008, 83, 417-440.	10.4	55
22	Individual acoustic variation in Belding's ground squirrel alarm chirps in the High Sierra Nevada. <i>Journal of the Acoustical Society of America</i> , 2002, 111, 1157-1160.	1.1	54
23	Early rearing interacts with temperament and housing to influence the risk for motor stereotypy in rhesus monkeys (<i>Macaca mulatta</i>). <i>Applied Animal Behaviour Science</i> , 2011, 132, 81-89.	1.9	54
24	Threat-Related Acoustical Differences in Alarm Calls by Wild Bonnet Macaques (<i>Macaca radiata</i>) Elicited by Python and Leopard Models. <i>Ethology</i> , 2007, 113, 352-367.	1.1	53
25	Network structure and prevalence of <i>Cryptosporidium</i> in Belding's ground squirrels. <i>Behavioral Ecology and Sociobiology</i> , 2013, 67, 1951-1959.	1.4	52
26	The influence of phylogeny, social style, and sociodemographic factors on macaque social network structure. <i>American Journal of Primatology</i> , 2018, 80, e22727.	1.7	52
27	Detecting Instability in Animal Social Networks: Genetic Fragmentation Is Associated with Social Instability in Rhesus Macaques. <i>PLoS ONE</i> , 2011, 6, e16365.	2.5	52
28	Social buffering and contact transmission: network connections have beneficial and detrimental effects on <i>Shigella</i> infection risk among captive rhesus macaques. <i>PeerJ</i> , 2016, 4, e2630.	2.0	47
29	Detection of social group instability among captive rhesus macaques using joint network modeling. <i>Environmental Epigenetics</i> , 2015, 61, 70-84.	1.8	46
30	Ranking Network of a Captive Rhesus Macaque Society: A Sophisticated Corporative Kingdom. <i>PLoS ONE</i> , 2011, 6, e17817.	2.5	44
31	Decoupling social status and status certainty effects on health in macaques: a network approach. <i>PeerJ</i> , 2016, 4, e2394.	2.0	44
32	The effects of predictability in daily husbandry routines on captive rhesus macaques (<i>Macaca mulatta</i>). <i>Applied Animal Behaviour Science</i> , 2013, 143, 117-127.	1.9	43
33	Maternal aggressive contact vocalizations in captive bottlenose dolphins (<i>Tursiops truncatus</i>): Wide-band, low-frequency signals during mother/aunt-infant interactions. <i>Zoo Biology</i> , 1995, 14, 293-309.	1.2	42
34	Policing in Nonhuman Primates: Partial Interventions Serve a Prosocial Conflict Management Function in Rhesus Macaques. <i>PLoS ONE</i> , 2013, 8, e77369.	2.5	41
35	Depressive-like behavioral response of adult male rhesus monkeys during routine animal husbandry procedure. <i>Frontiers in Behavioral Neuroscience</i> , 2014, 8, 309.	2.0	40
36	Seasonal Shedding of Multiple <i>Cryptosporidium</i> Genotypes in California Ground Squirrels (<i>Tamias amoenus</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td	3.1	39

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37	CLASSIFICATION OF AFRICAN ELEPHANT <i>LOXODONTA AFRICANA</i> RUMBLES USING ACOUSTIC PARAMETERS AND CLUSTER ANALYSIS. <i>Bioacoustics</i> , 2005, 15, 143-161.	1.7	38
38	Implementing positive reinforcement animal training programs at primate laboratories. <i>Applied Animal Behaviour Science</i> , 2012, 137, 114-126.	1.9	38
39	Early social experience affects behavioral and physiological responsiveness to stressful conditions in infant rhesus macaques (<i>Macaca mulatta</i>). <i>American Journal of Primatology</i> , 2011, 73, 692-701.	1.7	37
40	Alarm signals of the great gerbil: Acoustic variation by predator context, sex, age, individual, and family group. <i>Journal of the Acoustical Society of America</i> , 2005, 118, 2706-2714.	1.1	36
41	Time constraints imposed by anthropogenic environments alter social behaviour in longtailed macaques. <i>Animal Behaviour</i> , 2019, 150, 157-165.	1.9	36
42	Rates of human-macaque interactions affect grooming behavior among urban-dwelling rhesus macaques (<i>Macaca mulatta</i>). <i>American Journal of Physical Anthropology</i> , 2019, 168, 92-103.	2.1	36
43	Vocal development in captive harbor seal pups, <i>Phoca vitulina richardii</i> : Age, sex, and individual differences. <i>Journal of the Acoustical Society of America</i> , 2006, 120, 1684-1694.	1.1	35
44	Signaling context modulates social function of silent bared-teeth displays in rhesus macaques (<i>Macaca mulatta</i>). <i>American Journal of Primatology</i> , 2014, 76, 111-121.	1.7	35
45	<i>Cryptosporidium rubeyi</i> n. sp. (Apicomplexa: Cryptosporidiidae) in multiple <i>Spermophilus</i> ground squirrel species. <i>International Journal for Parasitology: Parasites and Wildlife</i> , 2015, 4, 343-350.	1.5	34
46	The strength of weak ties and helminth parasitism in giraffe social networks. <i>Behavioral Ecology</i> , 2016, 27, 1190-1197.	2.2	33
47	Communicative and other cognitive characteristics of bottlenose dolphins. <i>Trends in Cognitive Sciences</i> , 1997, 1, 140-145.	7.8	32
48	A Law of Word Meaning in Dolphin Whistle Types. <i>Entropy</i> , 2009, 11, 688-701.	2.2	31
49	Human-wildlife conflict: Proximate predictors of aggression between humans and rhesus macaques in India. <i>American Journal of Physical Anthropology</i> , 2015, 156, 286-294.	2.1	31
50	Connections Matter: Social Networks and Lifespan Health in Primate Translational Models. <i>Frontiers in Psychology</i> , 2016, 7, 433.	2.1	28
51	Affiliation and disease risk: social networks mediate gut microbial transmission among rhesus macaques. <i>Animal Behaviour</i> , 2019, 151, 131-143.	1.9	28
52	Applicability of Information Theory to the Quantification of Responses to Anthropogenic Noise by Southeast Alaskan Humpback Whales. <i>Entropy</i> , 2008, 10, 33-46.	2.2	27
53	Individuals in urban dwelling primate species face unequal benefits associated with living in an anthropogenic environment. <i>Primates</i> , 2020, 61, 249-255.	1.1	25
54	Multi-Scale Clustering by Building a Robust and Self Correcting Ultrametric Topology on Data Points. <i>PLoS ONE</i> , 2013, 8, e56259.	2.5	24

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55	Information theory, animal communication, and the search for extraterrestrial intelligence. <i>Acta Astronautica</i> , 2011, 68, 406-417.	3.2	23
56	Impact of individual demographic and social factors on human-wildlife interactions: a comparative study of three macaque species. <i>Scientific Reports</i> , 2020, 10, 21991.	3.3	23
57	The effect of rehabilitation of northern elephant seals (<i>Mirounga angustirostris</i>) on antimicrobial resistance of commensal <i>Escherichia coli</i> . <i>Veterinary Microbiology</i> , 2009, 133, 264-271.	1.9	22
58	Social network community structure and the contact-mediated sharing of commensal <i>E. coli</i> among captive rhesus macaques (<i>Macaca mulatta</i>). <i>PeerJ</i> , 2018, 6, e4271.	2.0	21
59	Social power, conflict policing, and the role of subordination signals in rhesus macaque society. <i>American Journal of Physical Anthropology</i> , 2016, 160, 102-112.	2.1	19
60	The span of correlations in dolphin whistle sequences. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2012, 2012, P06002.	2.3	18
61	Personality, environmental stressors, and diarrhea in Rhesus macaques : An interactionist perspective. <i>American Journal of Primatology</i> , 2018, 80, e22908.	1.7	18
62	Multiple Unique <i>Cryptosporidium</i> Isolates from Three Species of Ground Squirrels (<i>Tamias</i>) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 467 Td <i>Environmental Microbiology</i> , 2010, 76, 8269-8276.	3.1	17
63	Human-directed contra-aggression training using positive reinforcement with single and multiple trainers for indoor-housed rhesus macaques. <i>Applied Animal Behaviour Science</i> , 2011, 132, 178-186.	1.9	17
64	THE ROLE OF LEARNING IN CHUCK CALL RECOGNITION BY SQUIREL MONKEYS (<i>SAIMIRI SCIUREUS</i>). <i>Behaviour</i> , 2000, 137, 279-300.	0.8	16
65	Effects of Induced Molting on the Well-Being of Egg-Laying Hens. <i>Journal of Applied Animal Welfare Science</i> , 2006, 9, 9-23.	1.0	16
66	Computing a ranking network with confidence bounds from a graph-based Beta random field. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2011, 467, 3590-3612.	2.1	16
67	From patterned response dependency to structured covariate dependency: Entropy based categorical-pattern-matching. <i>PLoS ONE</i> , 2018, 13, e0198253.	2.5	16
68	Social management of laboratory rhesus macaques housed in large groups using a network approach: A review. <i>Behavioural Processes</i> , 2018, 156, 77-82.	1.1	15
69	Interactions with humans impose time constraints on urban-dwelling rhesus macaques (<i>Macaca</i>) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 467 Td	0.8	15
70	Impact of anthropogenic factors on affiliative behaviors among bonnet macaques. <i>American Journal of Physical Anthropology</i> , 2020, 171, 704-717.	2.1	15
71	A multiplex centrality metric for complex social networks: sex, social status, and family structure predict multiplex centrality in rhesus macaques. <i>PeerJ</i> , 2020, 8, e8712.	2.0	15
72	Measuring dominance certainty and assessing its impact on individual and societal health in a nonhuman primate model: a network approach. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2022, 377, 20200438.	4.0	15

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73	Bioacoustic tools for enhancing animal management and productivity: effects of recorded calf vocalizations on milk production in dairy cows. <i>Applied Animal Behaviour Science</i> , 2002, 77, 13-20.	1.9	14
74	Joint Modeling of Multiple Social Networks to Elucidate Primate Social Dynamics: I. Maximum Entropy Principle and Network-Based Interactions. <i>PLoS ONE</i> , 2013, 8, e51903.	2.5	14
75	Computing systemic risk using multiple behavioral and keystone networks: The emergence of a crisis in primate societies and banks. <i>International Journal of Forecasting</i> , 2014, 30, 797-806.	6.5	14
76	A Psychometrically Robust Screening Tool To Rapidly Identify Socially Impaired Monkeys In The General Population. <i>Autism Research</i> , 2020, 13, 1465-1475.	3.8	14
77	Consensus ranking for multi-objective interventions in multiplex networks. <i>New Journal of Physics</i> , 2019, 21, 055001.	2.9	13
78	Male-inflicted wounds have opposite effects on hair cortisol for captive male and female rhesus macaques (<i>Macaca mulatta</i>) following new group formation. <i>Primates</i> , 2019, 60, 51-62.	1.1	13
79	Addressing the challenges of research on human-wildlife interactions using the concept of Coupled Natural & Human Systems. <i>Biological Conservation</i> , 2021, 257, 109095.	4.1	13
80	Bioacoustic Monitoring of Aggression in Group-Housed Rhesus Macaques. <i>Journal of Applied Animal Welfare Science</i> , 2006, 9, 261-268.	1.0	11
81	Prevalence of enteric bacterial parasites with respect to anthropogenic factors among commensal rhesus macaques in Dehradun, India. <i>Primates</i> , 2016, 57, 459-469.	1.1	11
82	High rates of aggression do not predict rates of trauma in captive groups of macaques. <i>Applied Animal Behaviour Science</i> , 2019, 212, 82-89.	1.9	11
83	Sex differences in the impact of social status on hair cortisol concentrations in rhesus monkeys (<i>Macaca mulatta</i>). <i>American Journal of Primatology</i> , 2020, 82, e23086.	1.7	11
84	Assessing Transmission of Antimicrobial-Resistant <i>Escherichia coli</i> in Wild Giraffe Contact Networks. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	3.1	9
85	Improved behavioral indices of welfare in continuous compared to intermittent pair housing in adult female rhesus macaques (<i>Macaca mulatta</i>). <i>American Journal of Primatology</i> , 2020, 82, e23189.	1.7	8
86	Infant Survival Among Free-Living Bonnet Macaques (<i>Macaca radiata</i>) in South India. <i>International Journal of Primatology</i> , 2021, 42, 220-236.	1.9	8
87	Intermittent pair housing, pair relationship qualities, and HPA activity in adult female rhesus macaques. <i>American Journal of Primatology</i> , 2018, 80, e22762.	1.7	7
88	Recommendations for Abnormal Behaviour Ethograms in Monkey Research. <i>Animals</i> , 2021, 11, 1461.	2.3	7
89	Coping style and cortisol levels in infancy predict hair cortisol following new group formation in captive rhesus macaques (<i>Macaca mulatta</i>). <i>American Journal of Primatology</i> , 2018, 80, e22938.	1.7	6
90	Increased produce enrichment reduces trauma in socially housed captive rhesus macaques (<i>Macaca</i>)	1.7	6

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91	Using Markov chain Monte Carlo (MCMC) to visualize and test the linearity assumption of the Bradley-Terry class of models. <i>Animal Behaviour</i> , 2012, 84, 1523-1531.	1.9	5
92	Systemic Testing on Bradley-Terry Model against Nonlinear Ranking Hierarchy. <i>PLoS ONE</i> , 2014, 9, e115367.	2.5	5
93	Implementing social network analysis to understand the socioecology of wildlife co-occurrence and joint interactions with humans in anthropogenic environments. <i>Journal of Animal Ecology</i> , 2021, 90, 2819-2833.	2.8	5
94	Effects of a mechanical response-contingent surrogate on the development of behaviors in nursery-reared rhesus macaques (<i>Macaca mulatta</i>). <i>Journal of the American Association for Laboratory Animal Science</i> , 2014, 53, 464-71.	1.2	5
95	Impact of joint interactions with humans and social interactions with conspecifics on the risk of zoonanthropotic outbreaks among wildlife populations. <i>Scientific Reports</i> , 2022, 12, .	3.3	4
96	Predictors of insubordinate aggression among captive female rhesus macaques. <i>American Journal of Physical Anthropology</i> , 2017, 164, 558-573.	2.1	3
97	Female social structure influences, and is influenced by, male introduction and integration success among captive rhesus macaques (<i>Macaca mulatta</i>). <i>Behaviour</i> , 2021, 158, 1007-1042.	0.8	3
98	Factors influencing the success of male introductions into groups of female rhesus macaques: Introduction technique, male characteristics and female behavior. <i>American Journal of Primatology</i> , 2021, 83, e23314.	1.7	3
99	Effect of Indoor Compared with Outdoor Location during Gestation on the Incidence of Diarrhea in Indoor-Reared Rhesus Macaques (<i>Macaca mulatta</i>). <i>Journal of the American Association for Laboratory Animal Science</i> , 2016, 55, 277-90.	1.2	3
100	Information Theory Applied to Animal Communication Systems and Its Possible Application to SETI. <i>Symposium - International Astronomical Union</i> , 2004, 213, 514-518.	0.1	2
101	ARE BUBBLESTREAM WHISTLES UNREPRESENTATIVE OF BOTTLENOSE DOLPHIN WHISTLE REPERTOIRES?. <i>Marine Mammal Science</i> , 2006, 22, 492-495.	1.8	2
102	Prevalence of Enterobacteriaceae in Wild Long-Tailed Macaques (<i>Macaca fascicularis</i>) in Thailand. <i>International Journal of Primatology</i> , 2021, 42, 337-341.	1.9	2
103	Monkey's Social Roles Predict Their Affective Reactivity. <i>Affective Science</i> , 2021, 2, 230-240.	2.6	1
104	Effects of Human Management Events on Conspecific Aggression in Captive Rhesus Macaques (). <i>Journal of the American Association for Laboratory Animal Science</i> , 2017, 56, 122-130.	1.2	1
105	Parallels of human language in the behavior of bottlenose dolphins. <i>Linguistic Frontiers</i> , 2022, 5, 5-11.	0.1	1
106	Dolphin Mysteries: Unlocking the Secrets of Communication by Kathleen M. Dudzinski and Toni Frohoff. <i>Marine Mammal Science</i> , 2009, 25, 992-993.	1.8	0
107	Sex Differences in Hierarchical Stability in a Formation of a Mixed-sex Group of Rhesus Macaques. <i>Journal of the American Association for Laboratory Animal Science</i> , 2022, 61, 67-74.	1.2	0